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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/901,060	07/10/2001	Hisao Koyanagi	Q65388	6666	
7590 03/17/2004 SUGHRUE, MION, ZINN, MACPEAK & SEAS			EXAMINER		
			KIM, KENNETH S		
2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3202			ART UNIT	PAPER NUMBER	
vi domington, 13	2002. 2202		2111	~	
			DATE MAILED: 03/17/2004	, 5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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0	Application No.	Applicant(s)	X
	09/901,060	KOYANAGI, HISAO	
Office Action Summary	Examiner	Art Unit	
	Kenneth S KIM	2111	
The MAILING DATE of this communication app	ears on the cover sheet wit	th the correspondence address	
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re y within the statutory minimum of thirty will apply and will expire SIX (6) MONT , cause the application to become AB	eply be timely filed (30) days will be considered timely. FHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 10 Ju	<u>aly 2001</u> .		
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matte	ers, prosecution as to the merits is	
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-10 is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5) Claim(s) is/are allowed.	,		
6)⊠ Claim(s) <u>1-9</u> is/are rejected.	•		
7) Claim(s) <u>10</u> is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.	KENNETH S. KIM	
Application Papers		PRIMARY EXAMINER	
9) The specification is objected to by the Examine	r.		
10)☐ The drawing(s) filed on is/are: a)☐ acc		by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is objected to. See 37 CFR 1.121(d).	
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents	s have been received in Ap	pplication No	
Copies of the certified copies of the prior	rity documents have been i	received in this National Stage	
application from the International Bureau	, , , ,		
* See the attached detailed Office action for a list	of the certified copies not r	received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)		ummary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 		/Mail Date formal Patent Application (PTO-152)	
Paper No(s)/Mail Date <u>4</u> .	6) Other:		

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1. Claims 1-10 are presented for examination.

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, it is not clear how the scattered area information is used.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1 and 2rejected under 35 U.S.C. 102(b) as being anticipated by Kamiya, U.S. Patent No. 5,247,635.

Kamiya teaches the invention as claimed in claims 1 and 2 including a circuit for controlling a vector scatter instruction (col. 3, line 35) wherein an area specified vector

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scatter instruction specifying scattered area (col. 3, lines 52-54) is provided as an instruction set, comprising:

- (a) means for detecting (3, col. 3, line 65) if an address to be accessed by the area specified vector scatter instructions overlaps with an address to be accessed by a memory access instructions that follows the vector scatter instruction (col. 4, line 9), (b) means for holding the memory access instruction that follows the vector scatter instruction if the address overlap (col. 4, line 11), and
- (c) wherein the memory access instruction that follows the vector scatter instruction is held until cache invalidation is finished (col. 5, line 21; col. 4, line 13).
- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 3-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kamiya, U.S. Patent No. 5,247,635.

Kamiya teaches the invention substantially as claimed as set forth in paragraph 5 above, however, does not expressly state that the vector scatter instruction comprises a predetermined field specifying a starting address register and an ending address register and two comparators are used to determine whether the memory access address falls within the range.

The reference teaches the vector scatter instruction comprising a predetermined field specifying the start address and length of the range and teaches how to obtain the end address (col. 3, line 51).

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It would have been obvious to a person of ordinary skill in the art at the time the invention was made that the explicit identification of the end address is an alternative as a design choice and, along with the use of the comparators for detection of the overlap, falls within the rudimentary conventional design capacity of the person. The person would have been motivated to adopt such a design as to use a readily available feature to achieve the desired function, where such feature is traditionally implemented to obtain such function.

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nishi taught a method of controlling execution of a vector load following a vector store instruction..

- 9. Claim 10 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth S KIM whose telephone number is (703) 305-9693. The examiner can normally be reached on M-F (8:30-17:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (703) 305-4815. The fax phone numbers

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for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

March 11, 2004

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